

- ♦ Refactoring patterns
 - ♦ Few classes share repeating functionality → extract base class and reuse the common code
 - ♦ Different classes need to be instantiated depending on configuration setting → use factory
 - ♦ Code is not well formatted → reformat it
 - ♦ Too many classes in a single namespace → split classes logically into more namespaces
 - ♦ Unused using definitions → remove them
 - ♦ Non-descriptive error messages → improve them
 - ♦ Absence of defensive programming → add it

Refactoring To Patterns

Joshua Kerievsky



Refactoring To Patterns:

Refactoring to Patterns Joshua Kerievsky, 2004-08-05 In 1994 Design Patterns changed the landscape of object oriented development by introducing classic solutions to recurring design problems In 1999 Refactoring revolutionized design by introducing an effective process for improving code With the highly anticipated Refactoring to Patterns Joshua Kerievsky has changed our approach to design by forever uniting patterns with the evolutionary process of refactoring This book introduces the theory and practice of pattern directed refactorings sequences of low level refactorings that allow designers to safely move designs towards or away from pattern implementations Using code from real world projects Kerievsky documents the thinking and steps underlying over two dozen pattern based design transformations Along the way he offers insights into pattern differences and how to implement patterns in the simplest possible ways Coverage includes A catalog of twenty seven pattern directed refactorings featuring real world code examples Descriptions of twelve design smells that indicate the need for this book s refactorings General information and new insights about patterns and refactoring Detailed implementation mechanics how low level refactorings are combined to implement high level patterns Multiple ways to implement the same pattern and when to use each Practical ways to get started even if you have little experience with patterns or refactoring Refactoring to Patterns reflects three years of refinement and the insights of more than sixty software engineering thought leaders in the global patterns refactoring and agile development communities Whether you re focused on legacy or greenfield development this book will make you a better software designer by helping you learn how to make important design changes safely and effectively

Refactoring to Patterns Joshua Kerievsky, 2005 Kerievsky lays the foundation for maximizing the use of design patterns by helping the reader view them in the context of refactorings He ties together two of the most popular methods in software engineering today refactoring and design patterns as he helps the experienced developer create more robust software

Extreme Programming and Agile Methods - XP/Agile Universe 2004 Carmen Zannier, Hakan Erdogmus, Lowell Lindstrom, 2004-08-03 This book constitutes the refereed proceedings of the 4th Conference on Extreme Programming and Agile Methods XP Agile Universe 2004 held in Calgary Canada in August 2004 The 18 revised full papers presented together with summaries of workshops panels and tutorials were carefully reviewed and selected from 45 submissions The papers are organized in topical sections on testing and integration managing requirements and usability pair programming foundations of agility process adaptation and educational issues

Agile Software Architecture Muhammad Ali Babar, Alan W. Brown, Ivan Mistrik, 2013-11-27 Agile software development approaches have had significant impact on industrial software development practices Today agile software development has penetrated to most IT companies across the globe with an intention to increase quality productivity and profitability Comprehensive knowledge is needed to understand the architectural challenges involved in adopting and using agile approaches and industrial practices to deal with the development of large architecturally challenging systems in an

agile way Agile Software Architecture focuses on gaps in the requirements of applying architecture centric approaches and principles of agile software development and demystifies the agile architecture paradox Readers will learn how agile and architectural cultures can co exist and support each other according to the context Moreover this book will also provide useful leads for future research in architecture and agile to bridge such gaps by developing appropriate approaches that incorporate architecturally sound practices in agile methods Presents a consolidated view of the state of art and state of practice as well as the newest research findings Identifies gaps in the requirements of applying architecture centric approaches and principles of agile software development and demystifies the agile architecture paradox Explains whether or not and how agile and architectural cultures can co exist and support each other depending upon the context Provides useful leads for future research in both architecture and agile to bridge such gaps by developing appropriate approaches which incorporate architecturally sound practices in agile methods

Microsoft .NET - Architecting Applications for the Enterprise Andrea Saltarello,Dino Esposito,2008-10-15 Make the right architectural decisions up front and improve the quality and reliability of your results Led by two enterprise programming experts you ll learn how to apply the patterns and techniques that help control project complexity and make systems easier to build support and upgrade right from the start Get pragmatic architectural guidance on how to Build testability maintainability and security into your system early in the design Expose business logic through a service oriented interface Choose the best pattern for organizing business logic and behavior Review and apply the patterns for separating the UI and presentation logic Delve deep into the patterns and practices for the data access layer Tackle the impedance mismatch between objects and data Minimize development effort and avoid over engineering and deliver more robust results Get code samples on the Web *Refactoring* Martin Fowler,Kent Beck,John Brant,William Opdyke,Don Roberts,2012-03-09 As the application of object technology particularly the Java programming language has become commonplace a new problem has emerged to confront the software development community Significant numbers of poorly designed programs have been created by less experienced developers resulting in applications that are inefficient and hard to maintain and extend Increasingly software system professionals are discovering just how difficult it is to work with these inherited non optimal applications For several years expert level object programmers have employed a growing collection of techniques to improve the structural integrity and performance of such existing software programs Referred to as refactoring these practices have remained in the domain of experts because no attempt has been made to transcribe the lore into a form that all developers could use until now In *Refactoring Improving the Design of Existing Code* renowned object technology mentor Martin Fowler breaks new ground demystifying these master practices and demonstrating how software practitioners can realize the significant benefits of this new process With proper training a skilled system designer can take a bad design and rework it into well designed robust code In this book Martin Fowler shows you where opportunities for refactoring typically can be found and how to go about reworking a bad design

into a good one Each refactoring step is simple seemingly too simple to be worth doing Refactoring may involve moving a field from one class to another or pulling some code out of a method to turn it into its own method or even pushing some code up or down a hierarchy While these individual steps may seem elementary the cumulative effect of such small changes can radically improve the design Refactoring is a proven way to prevent software decay In addition to discussing the various techniques of refactoring the author provides a detailed catalog of more than seventy proven refactorings with helpful pointers that teach you when to apply them step by step instructions for applying each refactoring and an example illustrating how the refactoring works The illustrative examples are written in Java but the ideas are applicable to any object oriented programming language

[Extreme Programming Mastery: An In-Depth Exploration and Practical Guide](#) Adam Jones,2025-01-02 Extreme Programming Mastery An In Depth Exploration and Practical Guide unlocks the full potential of Extreme Programming XP an agile software development methodology celebrated for its focus on customer satisfaction dynamic teamwork and the production of high quality software This comprehensive guide delves deeply into XP s foundational practices values and principles providing both novice and seasoned developers with an extensive understanding of both its basic and sophisticated techniques Covering essential topics such as Test Driven Development Refactoring Pair Programming Continuous Integration and Deployment this book equips readers with the skills and insights needed to implement XP efficiently in their projects It also tackles the challenges of adopting coding standards using system metaphors practicing collective code ownership and scaling XP for larger projects ensuring a thorough exploration of the methodology Whether you re looking to enhance your existing XP practices or fully embrace the methodology for the first time Extreme Programming Mastery An In Depth Exploration and Practical Guide is an invaluable resource Discover how to nurture a collaborative team atmosphere seamlessly adapt to evolving requirements and deliver software that exceeds customer expectations Embark on your journey to mastering Extreme Programming and transform your software development processes to achieve unparalleled project quality

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Object-oriented Reengineering Patterns Serge Demeyer,Stéphane Ducasse,Oscar Nierstrasz,2008 Object Oriented Reengineering Patterns collects and distills successful techniques in planning a reengineering project reverse engineering problem detection migration strategies and software redesign This book is made available under the Creative Commons

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Additional material is available from the book's web page at <http://scg.unibe.ch/oorp> **Central European Functional Programming School** Viktória Zsók, Zoltán Horváth, Lehel Csató, 2015-03-20 This volume presents the revised lecture notes of selected talks given at the Fifth Central European Functional Programming School CEFPS 2013 held in July 2013 in Cluj Napoca, Romania. The 14 revised full papers presented were carefully reviewed and selected. The lectures cover a wide range of distributed and multicore functional programming subjects. The last 5 papers are selected papers of the PhD Workshop organized for the participants of the summer school.

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